

EXPO  
2020  
DUBAI  
UAE

# EXPO 2020 DUBAI UNMISSABLE TECHNOLOGIES AND INNOVATIONS



JANUARY EDITION





# Hayyakum! Welcome!

Welcome to Expo 2020 Dubai — a global gathering like no other, and one that, on the 50th anniversary of the UAE, allows us all to look forward with renewed hope.

Expo 2020 is one of the largest events to take place globally since the pandemic began, and we would like to assure you that your health and safety is our first responsibility.

Across the site, you will see a range of protective measures, from sanitisation stations to mandatory face-mask wearing, to rigorous social distancing regulations. Less visible, but equally important, is our vaccination campaign — all our staff, volunteers, contractors and official participants have been fully vaccinated.

The well-being of everyone working at and attending Expo 2020 Dubai is our top priority, allowing you to focus on one thing: creating memories that will last a lifetime.

## THE BEATING HEART OF 1 EXPO 2020



AL WASL PLAZA

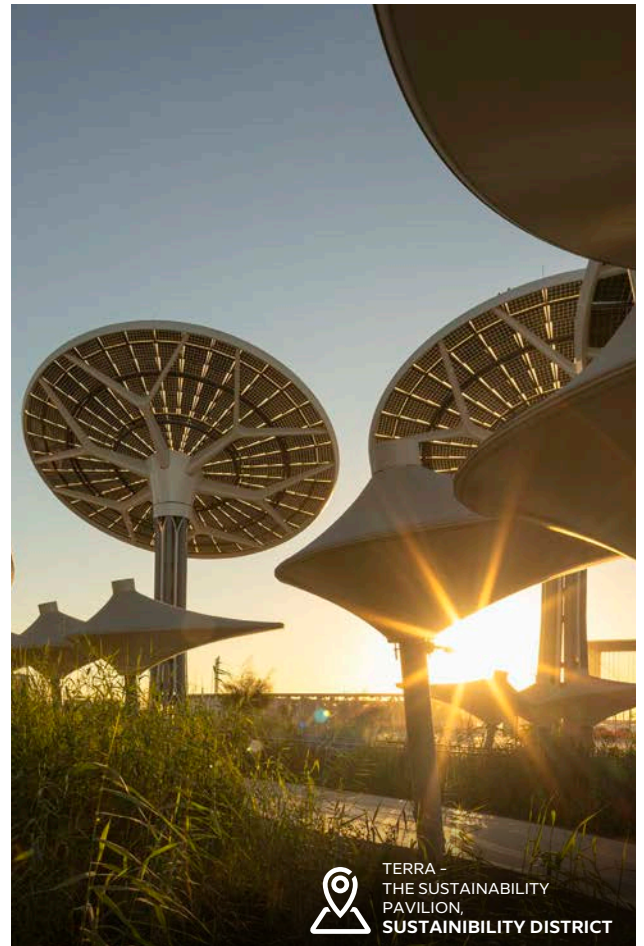
Expo 2020's spectacular centrepiece and gathering ground for celebration and wonder. Situated at the meeting point of Expo's three thematic districts, Al Wasl Plaza's dome is tall enough to fit the Leaning Tower of Pisa beneath it. By night, she transforms into a 360-degree projection screen, blanketed by more than 250 state-of-the-art projectors.

## RIDE THE WORLD'S LARGEST 2 ELEVATOR



ALIF - THE MOBILITY  
PAVILION,  
MOBILITY DISTRICT

Ride the world's largest passenger lift, which can transport more than 160 people at a time. The Bedouin girl in the middle of the lift is illuminated, reaching up towards the stars, symbolising the desire to reach new heights.



TERRA -  
THE SUSTAINABILITY  
PAVILION,  
SUSTAINABILITY DISTRICT

## 3 WITNESS E-TREES THAT FOLLOW THE SUN

The 4,912 solar panels on Terra – the Sustainability Pavilion's 130-metre wide canopy and 18 Energy Trees – help generate 4GWh of alternative energy per year, enough electricity to charge more than 900,000 mobile phones in the sand. Carbon dating of these artifacts revealed that the site was active 3000 years ago.





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## EXPO DRONE SHOW

Turn your gaze towards the sky! This dazzling drone show runs for 15 minutes and the best place to watch it is from Earth Plaza. Get ready to take those snaps to share on social media.

**19:30 - 19:45 & 23:30 - 23:45**



EARTH PLAZA,  
SUSTAINABILITY  
DISTRICT

## 5 INTERACT WITH OPTI



Terminus deployed more than 150 robots that will perform a variety of tasks such as greeting you, providing you assistance and performing in special displays, as well as helping with food and beverage delivery and hospitality services.

## 6 WALK UNDER THE DATA CLOUDS



ESTONIA  
PAVILION,  
MOBILITY  
DISTRICT

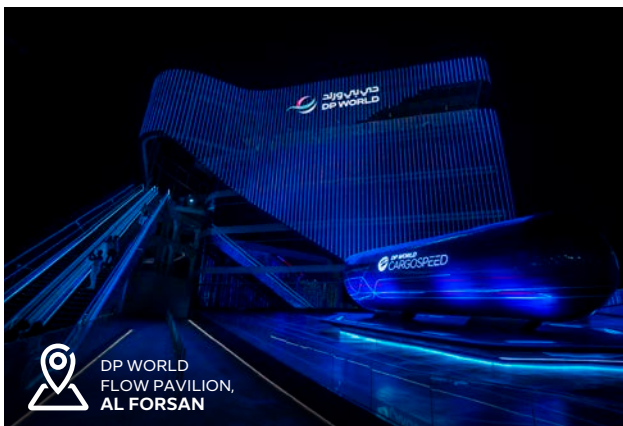
Estonia is one of the world's first e-governments, a true digital-first society. With a luminous design that draws inspiration from the circuitry that powers it, the Estonia Pavilion shares the Baltic nation's digital innovations with Expo 2020. Inside, visitors can tour a futuristic model e-classroom and walk beneath illuminated data "clouds" based on the country's X-Road online infrastructure.

## 7 TECHNOLOGY MEETS CULTURAL HERITAGE

Experience Ukrainian innovations, from an e-bike that can travel 380 kilometres on a single charge to solar blinds that generate electricity, inside a space-age four-storey pavilion. Join a seminar to explore how to build a more balanced world.



UKRAINE PAVILION,  
OPPORTUNITY  
DISTRICT



DP WORLD  
FLOW PAVILION,  
AL FORSAN

## 8 HYPERLOOP AT THE DP WORLD FLOW PAVILION

Enjoy the passenger experience of what it feels like travelling at high speed in this new sustainable mode of high-speed transport.

## 9 A FOREST OF POSSIBILITIES



BELARUS PAVILION,  
OPPORTUNITY  
DISTRICT

The Belarus Pavilion honours the harmony between nature and technology with its "smart forest" full of inventive exhibits to explore. Beginning with the digital grove of stylised trees outside and continuing through the interactive tunnels and art displays within, visitors to the pavilion will journey through an ingenious Forest of Future Technology.

## 10 DISCOVER THE SHAPE-SHIFTING PAVILION



REPUBLIC OF  
KOREA PAVILION,  
MOBILITY DISTRICT

The Republic of Korea Pavilion's sloped front features descending rows of glowing digital cubes that spin and light up in synchronised displays. Approximately 1,700 of these custom-made cubes decorate the pavilion, with vibrantly coloured screens on all sides.



## 11 WE SPEAK PLANTISH



CZECH REPUBLIC  
PAVILION,  
SUSTAINABILITY  
PAVILION

State-of-art phenotyping technology developed by PSI provides plant scientists around the globe with effective tools to determine how plants are feeling and what they need! This smart technology allows us to understand the subtle but fascinating language of plants by translating it into a format readable by humans. You have the opportunity to understand the PLANTISH language too. Welcome to the fascinating world of plants!

## 12 REIMAGINE ENERGY AT ENOC PAVILION



ENOC PAVILION,  
AL FORSAN

Designed to take visitors on an inspiring and immersive 15-minutes journey to challenge the conventional understanding of energy, ENOC Pavilion offers inspiring insights on how we can all partner in shaping the future of energy. It is a first-of-its-kind journey, visitors can 'feel' the energy through the use of ultrasound, audio-visual narratives, sensory experiences, kinetic installations and interactive projections. The architectural theme of the pavilion draws on the design of oil storage tanks with five distinct structures.

## 13 UNIQUE FOOD HALL EXPERIENCE WITH TALABAT KITCHEN

The two-storey food hall not only offers some 30 food concepts but also uses cutting-edge technology and robotics to deliver an efficient dining experience.



TALABAT KITCHEN,  
JUBILEE PARK

## DESIGN YOUR 14 PERFECT AIRCRAFT



EMIRATES  
PAVILION,  
AL FORSAN

Discover the future of aircraft cabin design while designing your very own aircraft, experimenting with robotic arms and exploring the innovative metallic and composite materials of the future.

## 16 LIGHT SHOW



CHINA PAVILION,  
OPPORTUNITY DISTRICT

Come and be mesmerised by an amazing daily display of performing arts mixed with a dazzling LED light show. This 10-minute show takes red frames as the pixel point, the exterior wall as the canvas and creates an unforgettable performance to delight all.

## CHECK OUT THE 15 WORLD'S FIRST COMPRESSED-AIR TRAIN



Take a unique sightseeing tour on the world's first compressed-air train. The Expo Explorer train allows its passengers to take a unique journey on board, where they will ride the first compressed-air train and experience the future of sustainable transport.

**Pick-up points:** Union Station | Hope Station | Al Forsan

## 17 PRINT YOUR FOOD



LITHUANIA  
PAVILION,  
SUSTAINABILITY  
DISTRICT

Head over to the Lithuania Pavilion and witness BITES in action, a 3D printer designed for real-time printing of snacks. These are natural high biological value snacks containing just 3 ingredients: a freeze-dried product (or a mix of several), cocoa butter, and pea protein isolate. You can also buy and enjoy your printed BITES snacks from the Lithuanian retail store!





MASTERCARD  
CUBE  
JUBILEE

**18**

## MASTERCARD PRICELESS CUBE

Mastercard is connecting guests to their passions at the Mastercard Cube. The installation immerses visitors in a range of multi-sensory experiences as they embark on Priceless journeys tailored to their passion, including sport, food and music, plus being a 'force for good'. Visitors will be wowed by mixed reality content that brings to life the next era of innovation, as Mastercard demonstrates how the power of payment technology will be harnessed to make life safer, easier and more connected for all.

## A SPECTACULAR, UNFORGETTABLE 19 WATER EXPERIENCE



JUBILEE  
PARK

Step inside the 14-metre-high walls of the spectacular Surreal at Expo 2020 and be mesmerised by the 360-degree immersive water, light and fire show, set to music curated by Game of Thrones composer Ramin Djawadi.

## VISIT THE SOLAR-POWERED HOME OF TOMORROW 20 AT THE DEWA PAVILION



DUBAI ELECTRICITY  
AND WATER AUTHORITY  
PAVILION,  
SUSTAINABILITY DISTRICT

From the solar roof to the temperature-buffering entryway, the DEWA Pavilion is designed to maximise efficiency and offers plenty of futuristic touches, such as a drone-delivery hatch and a weight-measuring bathroom floor.





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